

Steric relations in diene condensations of cyclopentadiene with monosubstituted ethylenes

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Abstract

1. The reactions of cyclopentadiene with vinyl chloride and with vinyl acetate give, in the first place, the kinetically favored endo adducts, which are then converted into their thermodynamically stable isomers. 2. For vinyl chloride the exo adduct is the stable form. 3. 11-Bromo-9,10-dihydro-9,10-ethanoanthracene, 9,10-dihydro-9,10-ethanoanthracen-11-ol, and the cyclopentadiene diadduct of vinyl bromide were synthesized. 4. The dipole moments of the compounds synthesized and of some previously described compounds were measured. © 1966 Consultants Bureau Enterprises, Inc.

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